

## Work Schedule of the Main Inspection/Restoration of the Kashiwazaki-Kariwa Nuclear Power Station in Response to the Niigata-Chuetsu-Oki Earthquake (during 4 Weeks) (1/2)

【Inspection/Restoration Status】

◆From January 13th, 2008 (Sun) to February 9th, 2008 (Sat)

System/Equipment	Items	Jan. 13th (Sun) to Jan. 19th (Sat)	Jan. 20th (Sun) to Jan. 26th (Sat)	Jan. 27th (Sun) to Feb. 2nd (Sat)	Feb. 3rd (Sun) to Feb. 9th (Sat)	Status of Inspection/Restoration
Unit No.1	Reactor facilities	Refueling floor service tools inspection (stud tensioners, etc.)				Coordinating for the start date of inspection.
		Reactor pressure vessel inspection preparation				Preparation for inspection of nozzle parts etc. planned from Nov. 28 to Jan. 22.
		Reactor pressure vessel inspection inspection				Inspection of nozzle parts etc. planned from Jan. 10 to Feb. 13.
		Pressure suppression chamber inspection preparation				Preparation for pressure suppression chamber inspection planned from Jan. 15 to Jan. 26.
		Pressure suppression chamber inspection inspection				Inspection to be commenced on Jan. 28.
	Turbine facilities	Turbine internal inspections *2				Low pressure turbine (B) internal inspection completed on Nov. 30.
	Other facilities	Submerged equipment inspection on ground floor 5 of the reactor combination building				Provisional restoration of low conductivity waste system (A) completed on Oct. 15, and (B) completed on Dec. 17. Provisional restoration of high conductivity waste system (A) completed on Nov. 9, and (B) completed on Dec. 26. Provisional restoration of storm drain system (B) completed on Dec. 18, and (A) completed on Dec. 25.
		Main transformers inspection (preparation for transportation into the factory)				Inspection completed on Nov. 23. Preparation for transportation into the factory planned from Oct. 29 to Dec. 28. Coordinating for the start date of transportation.
		House transformers inspection (preparation for transportation into the factory)				1A Inspection completed on Sept. 4. 1B Inspection completed on Oct. 12. Coordinating for the start date of transportation into the factory.
		Excitation transformers inspection (preparation for transportation into the factory)				Inspection completed on Oct. 18. Coordinating for the start date of transportation into the factory.
		Main generator inspection				Inspection to be commenced on Jan. 28.
Unit No.2	Reactor facilities	Fuel/control rod inspection				Inspection planned from Nov. 27 to Nov. 30, and from Dec. 25 to mid-February.
	Turbine facilities	Turbine internal inspections *2				High pressure turbine and low pressure turbine (A) internal inspection completed on Dec. 21.
		Restoration for the blowout panel of turbine building				Provisional restoration completed. Restoration work commenced on Oct. 9. Work suspended from Nov. 9 due to turbine inner inspection.
	Other facilities	Main transformers inspection (preparation for transportation into the factory)				Preparation for transportation into the factory completed on Dec. 28. Coordinating for the start date of transportation.
		House transformers inspection (preparation for transportation into the factory)				2A Inspection completed on Nov. 13. 2B Inspection completed on Nov. 19. Coordinating for the start date of transportation into the factory.
		Excitation transformers inspection (preparation for transportation into the factory)				Inspection completed on Dec. 6. Coordinating for the start date of transportation into the factory.
Unit No.3	Reactor facilities	Restoration for the blowout panel of reactor building				Provisional restoration completed. Survey for restoration completed on Oct. 30. Work suspended from Oct. 29 due to reactor head opening work. Coordinating for the start date of restoration work.
		Reactor head opening				Reactor head opening work completed on Jan. 8. Equipment temporary strage pool and reactor-well filled up with water on Jan. 8.
		In-core inspection preparation				Phase3*1 preparation for inspection planned from Feb. 1 to Feb. 5.
		In-core inspection inspection				Inspection of spent fuel pool rack hangers, etc. completed on Jan. 7. In-core inspection commenced on Jan. 9. Phase1 and 2*1 inspection planned from Jan. 21 to Feb. 5. Phase3*1 inspection planned from Feb. 6 to Feb. 20.
		Reactor pressure vessel inspection preparation				Preparation for inspection of nozzle parts etc. to be commenced on Jan. 21.
		Inspection of reactor recirculation piping applicable to the Fitness-for-Service rule				Inspection to be commenced on Jan. 22.
	Turbine facilities	Turbine internal inspections *2				High pressure turbine and low pressure turbine (A) internal inspection completed on Dec. 14.
		Restoration for the blowout panel of turbine building				Provisional restoration completed. Restoration work commenced on Oct. 29. Work suspended from Nov. 17 due to turbine inner inspection.
	Other facilities	Main transformers inspection (preparation for transportation into the factory)				Inspection completed on Oct. 26. Preparation for transportation into the factory completed on Nov. 26. Coordinating for the start date of transportation.
		House transformers inspection (preparation for transportation into the factory)				3A Inspection completed on Oct. 22. Coordinating for start date of transportation into the factory. * 3B Transportation completed on Sept. 20.
		Excitation transformers inspection (preparation for transportation into the factory)				Inspection completed on Nov. 3. Coordinating for the start date of transportation into the factory.
Unit No.4	Reactor facilities	In-core inspection preparation				Phase3*1 preparation for inspection planned from Jan. 12 to Jan. 19.
		In-core inspection inspection				Phase1 & 2*1 inspection completed on Jan. 16. Phase3*1 inspection planned from Jan. 21 to Feb. 5.
		Reactor pressure vessel inspection preparation				Preparation for inspection of nozzle parts etc. planned from Jan. 16 to Feb. 8.
		Reactor pressure vessel inspection inspection				Inspection of nozzle parts etc. planned from Dec. 8 to Dec. 18, and from Jan. 28 to Feb. 14.
	Turbine facilities	Turbine internal inspections *2				High pressure turbine and low pressure turbine (A) internal inspection completed on Dec. 14.
	Other facilities	Main transformers inspection (preparation for transportation into the factory)				Inspection completed on Dec. 13. Preparation for transportation into the factory conducted from Dec. 14 to Dec. 27. Coordinating for start date of transportation.
		House transformers inspection				4A, 4B Coordinating for the start date of inspection.
		Excitation transformers inspection				Coordinating for the start date of inspection.
		Main generator inspection				Inspection to be commenced on Jan. 15.

## Work Schedule of the Main Inspection/Restoration of the Kashiwazaki-Kariwa Nuclear Power Station in Response to the Niigata-Chuetsu-Oki Earthquake (during 4 Weeks) (2/2)

[Inspection/Restoration Status]

◆From January 13th, 2008 (Sun) to February 9th, 2008 (Sat)

System/Equipment	Items	Jan. 13th (Sun) to Jan. 19th (Sat)	Jan. 20th (Sun) to Jan. 26th (Sat)	Jan. 27th (Sun) to Feb. 2nd (Sat)	Feb. 3rd (Sun) to Feb. 9th (Sat)	Status of Inspection/Restoration
Unit No.5	Reactor facilities	Reactor pressure vessel inspection preparation				Preparation for inspection of nozzle parts etc. completed on Jan. 11.
		inspection				Inspection of nozzle parts etc. completed on Jan. 16.
		Jet pump inspection				Visual inspection to be conducted on Jan. 18 prior to disassembly. Coordinating for the start date of disassembly.
	Turbine facilities	Turbine internal inspections *2				High pressure turbine and low pressure turbine (A) internal inspection completed on Dec. 14.
	Other facilities	Main transformers inspection (preparation for transportation into the factory)				Inspection completed on Nov. 29. Preparation for transportation into the factory conducted from Nov. 30 to Dec. 25. Coordinating for the start date of transportation into the factory.
		House transformers inspection				5A, 5B Coordinating for the start date of inspection.
		Excitation transformers inspection				Coordinating for the start date of inspection.
		Main generator inspection				Inspection commenced on Nov. 3. Transportation of rotor into the factory completed Dec. 1.
Unit No.6	Reactor facilities	In-core inspection preparation				Phase3*1 preparation for inspection completed on Jan. 9.
		inspection				Phase 3*1 inspection planned from Jan. 10 to Jan. 28.
		Fuel/control rod inspection				Inspection planned from Feb. 1 to mid-March.
	Turbine facilities	Turbine internal inspections *2				High pressure turbine and low pressure turbine (A) internal inspection completed on Oct. 25.
	Other facilities	Main transformers inspection				Transportation into the factory completed on Oct. 31.
		House transformers inspection				6A, 6B Transportation into the factory completed on Oct. 25.
		Reactor internal pump input transformer inspection				Two units carried out to the factory on Nov. 20. Two units carried out to the factory on Dec. 3 (total of 4 units).
		500kV power cable (OF cable) inspection				Inspection to be commenced on Feb. 9.
		Discharge canal inspection / restoration preparation				Discharge canal inspection completed on Sept. 29. Maintenance method under consideration. Preparation for maintenance commenced on Dec. 3.
						Inspection planned from Nov. 19, Nov. 20, Dec. 4, Dec. 5, and from Jan. 23 to mid-February. *3
Unit No.7	Reactor facilities	Fuel/control rod inspection				Inspection and provisional restoration completed on Nov. 15. Reactor well is currently full. (Vacuum work is still underway.) Lining to be repaired planned from Jan.18 to end of February.
		Reactor-well inspection				High pressure turbine and low pressure turbine (A) (B) (C) detailed inspection commenced on Dec. 1.
	Turbine facilities	Turbine internal inspections *2				Transportation into the factory completed on Oct. 25.
	Other facilities	Main transformers inspection				7A, 7B Transportation into the factory completed on Dec. 6.
		House transformers inspection				Two units carried out to the factory on Nov. 19. Two units carried out to the factory on Nov. 24. (total of 4 units).
		Reactor internal pump input transformer inspection				Inspection commenced on Nov. 2. Withdrawal of the rotor completed on Nov. 20.
		Main generator inspection				Inspection to be commenced on Jan. 22.
		500kV power cable (OF cable) inspection				Discharge canal inspection completed on Oct. 10. Maintenance method under consideration. Preparation for maintenance commenced on Dec.3.
		Discharge canal inspection / restoration preparation				Work for installation commenced on Dec. 7.
Transformer (common)/Switch Yard		High-voltage start-up transformer #1 inspection				Provisional restoration completed on Sept. 20. Unit No.7 Restoration work commenced on Dec. 25.
		On-site check / inspection / restoration of the oil protection tank for the transformer				House boiler (Arahama-side) 1A, 2A, 2B: Inspection underway. (Ohminato-side) 4A: Inspection underway. 4B: Inspection completed on Oct. 23.
Environmental Facilities	Inspection of house boilers					Drum soundness verification work commenced on Oct. 9. Drums to be transferred to temporary warehouse from Jan. 23.
Solid Waste Storage Facility	Restoration work					Repair work of the second floor of the administrative building, and the first and second floors of information building underway.
	Restoration work for administration building / information building, etc.					Restoration of the slope completed on Oct. 22. Restoration work for roads inside and outside of the site currently in progress.
	Restoration work for the on-site / outside roads & slope, etc.					Unit No.1 Replacement completed on Dec. 27. Unit No.5 and 6 Replacement planned from Jan. 7 to Feb. 8.
	Replacement of seismic data recorders					Site inspection commenced on Dec.25. Fire protection tank to be installed from mid-February.
	Outdoor fire protection system piping to be placed above ground, installation of fire protection tank, etc.					Inspection to be commenced on Feb. 5.
Others	Inspection of spent fuel transportation cask					

※ Inspection results for each facilities will be announced as soon as they compiled.

※ Inspection and restoration work and execution date for each item may alter according to the situation.

\*1 Phase 1 : Inspection for the upper part of reactors, Phase 2 : Inspection for the middle part (reactor core) of the reactor, Phase 3 : Inspection for the bottom part of the reactor.

\*2 Turbine inspection work will be conducted as follows:

- All units will be inspected in detail by opening all turbine casings after conducting internal inspection.

- Internal inspection will be conducted by opening the high-pressure turbine and low-pressure turbine (A) and visually checking for damages or significant deformation in major components such as the casings and blades. (For the unit No. 1, since the high-pressure turbine and low-pressure turbines (A) and (C) had been opened for regular outage at the time of the earthquake, inspections will be conducted for the low-pressure turbine (B) that had not been opened.)

- Detailed inspection includes, in addition to regular full-scope inspection, special inspection in consideration of the impact of the earthquake and necessary repairs in case damages are found.

\*3 Revised on Feb. 22, 2008: only preparation works were conducted on Nov. 17 and 18.

To be corrected. To be inspected from Nov. 17 to Nov. 20, Dec. 4, Dec. 5 and from Jan. 23 to Feb. 22.